

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-12. (canceled).

13. (currently amended): A nitrogen oxide decomposing element, comprising:
a conductive solid electrolyte film for selectively allowing a hydrogen ion to pass through;
a first electrode made of an electronic conductivity base material disposed on a part of a surface of the conductive solid electrolyte film and a catalyst for accelerating anodic oxidation;
a second electrode made of an electronic conductivity base material disposed on the other part of the surface of the conductive solid electrolyte film and a catalyst for accelerating cathodic reduction; and
a platinum group catalyst supported by a porous metal oxide disposed to be adjacent ~~to~~contacted with the second electrode.

14. (previously presented): The nitrogen oxide decomposing element according to claim 13, wherein the first and the second electrodes are respectively provided on opposed plane surfaces of the surface of the conductive solid electrolyte film.

15. (previously presented): The nitrogen oxide decomposing element according to claim 13, wherein the first and the second electrodes are provided on a same plane surface of the surface of the conductive solid electrolyte film.

16. (previously presented): The nitrogen oxide decomposing element according to claim

13, wherein a mixed layer including an electronic conductivity base material, a solid electrolyte film, a platinum group catalyst and a cathodic catalyst is provided between the conductive solid electrolyte film and the second electrode.

17. (previously presented): The nitrogen oxide decomposing element according to claim 13, wherein the metal oxide is an acidic oxide.

18. (previously presented): The nitrogen oxide decomposing element according to claim 17, wherein the metal oxide includes at least one component of titanium dioxide, zirconium dioxide, aluminum oxide, silicon oxide, magnesium oxide, and tin oxide.

19. (previously presented): The nitrogen oxide decomposing element according to claim 13, wherein the metal oxide is an amphoteric oxide.

20. (previously presented): The nitrogen oxide decomposing element according to claim 19, wherein the metal oxide includes at least one component of titanium dioxide, zirconium dioxide, aluminum oxide, silicon oxide, magnesium oxide, and tin oxide.

21. (previously presented): The nitrogen oxide decomposing element according to claim 13, wherein the platinum group catalyst includes at least one component of platinum, iridium, and palladium.

22. (previously presented): A nitrogen oxide decomposing apparatus, comprising:
the nitrogen oxide decomposing element according to any one of claims 13 to 21 and a

frame holding this; a gas supply ports for supplying an anode gas and a cathode gas into the frame; a gas exhaust port for exhausting the gases in the frame to outside; and a power source for applying a DC voltage between the first and the second electrodes.

23. (previously presented): The nitrogen oxide decomposing apparatus according to claim 22, wherein a gas containing water vapor is supplied as the anode gas.

24. (previously presented): The nitrogen oxide decomposing apparatus according to claim 22, wherein a gas containing nitrogen oxide is supplied as the cathode gas.

25. (previously presented): The nitrogen oxide decomposing apparatus according to claim 22, wherein the nitrogen oxide decomposing apparatus further comprises a sensor for detecting a concentration of nitrogen oxide, and a control device for controlling a magnitude of a current flowing between the first and the second electrodes and an energization time in accordance with the concentration of the nitrogen oxide detected by the sensor.

26. (previously presented): The nitrogen oxide decomposing apparatus according to claim 25, wherein the sensor is located in a vicinity of the platinum group catalyst supported by the metal oxide.